Homework from the Review

A lot of homework from the review committee, most of it must be done before middle of August. Detailed list of tasks will be given to us sometime next week. Biggest problem – large amount of material in ROC3: ~16% of radiation length.

Implement correct amount of material in PISA

- Done? Maki will check

Make radiation length map vs phi and eta - Maki

- HSCAN? - ask Charlie
- simulation with photons???

Finish implementation:

- charge sharing - close to being done; Manabu/Kenichi
- clustering - close to being done; Kenichi/Manabu
- noise - done, needs to be committed to cvs
- dead areas ?

Impact on VTX performance

Degradation of DCA resolution and coordinate resolution
- ISU student/Sasha

Standalone tracking efficiency/ghosts
- Alan
- Incorporating standalone tracking in PHENIX framework!!!

Global tracking impact (see also next slide)
- ISU student/Sasha

Jet reconstruction VTX standalone
- ISU student/Manabu/Kenichi
- Good progress at ISU:

  PYTHIA -> PISA -> standalone tracking -> FASTJET

Impact on PHENIX

J/psi, LVM, single electron physics

- We should show that we can reject conversions after the first VTX layer by matching tracks to hits in VTX in central Au+Au events
- Mass resolution (Ermias's presentation in 2006)

Triggering

- Increased trigger rate – loss of statistics
- Level 2 probably unaffected
- Right now no need for level 1 in Au+Au
- Use Converter Runs to check

- b/c separation == DCA resolution

- Sasha contacted H/L PWG asking for volunteers